New York State Department of Transportation Yellow Flag NB22CTW024

By: Rehan Afridi

Flag Date: July 22, 2022

Superseding Information:

No Flags Superseded

Structure Information

BIN: 1065318 Region: 11 - NEW YORK CITY

Feature Carried: 278I278IX2M23027 County: KINGS

Feature Crossed: 6TH AVENUE Political Unit: City of NEW YORK
Orientation: 8 - NORTHWEST Approximate Year Built: 1962

Posted Load Matches Inventory: No

Bridge Load Posting (Tons): Not Posted for Load

Primary Owner: New York State Department of Transportation

Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party

Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp Number of Spans: 322

Verbal Notification Information

Person Notified: Heinz Joachim, P.E. Date: July 22, 2022 2:00:00 PM

Of: NYSDOT Region 11

Signature Information

Signature: Rehan Afridi, P.E. 075185 Date: August 09, 2022

Reviewed By: Robert Kemp Date: August 10, 2022

Attachments: 6

Flag Date: July 22, 2022

Flagged Elements

Parent Element	Element	Total Quantity	Unit
Span Number : 183			
	107 - Steel Open Girder/Beam	989	ft
	PR831 - Steel Beam End	42	each

Flagged Condition Description

This Yellow Flag No. NB22CTW024 is NEW.

Location: Span 183, Girder G1 at Pier 182

Description: The end of Girder G1 web in Span 183 at Pier 182 exhibits overall 49% section loss for full height along the connection angle (see Sketch).

Additionally, the lower web of the left side of the girder at the pier exhibits a 2" high x 3'-0" long area with 1/8" to 3/16" deep section loss and the left side connection angle exhibits up to 7/8" thick pack rust for full height, heavy corrosion with 30 to 35% section loss throughout, and 15 to 20% section loss at rivet heads. The right side connection angle exhibits up to 1/8" thick pack rust at the top 3 inches with two (2) corrosion holes, 1/2" high x 1-1/2" wide at the top and a 1" dia. corrosion hole at the bottom (see Photo 5 and Sketch).

This is a NEW flag.

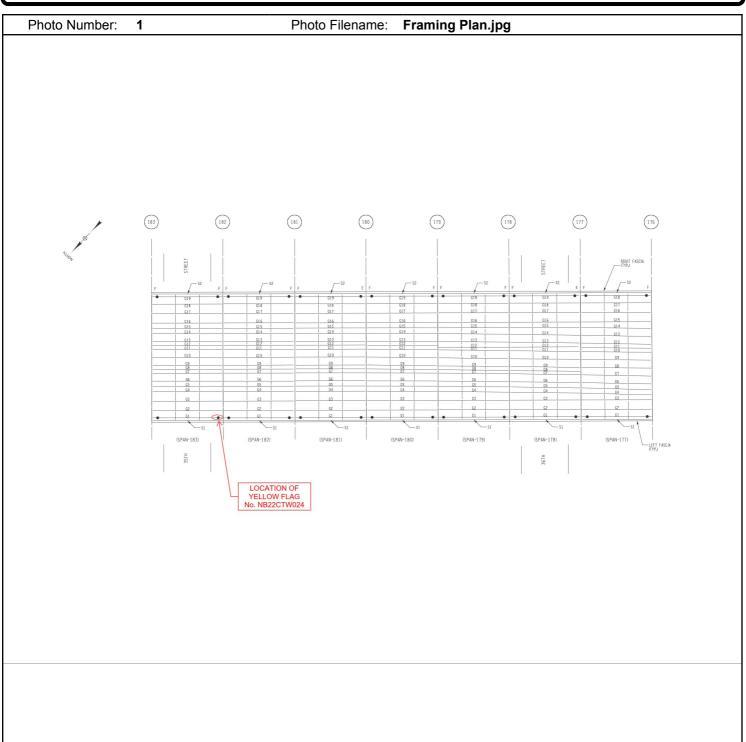
Notes:

- 1. The affected member, Girder G1 is load path redundant. The field measured web thickness is 0.628".
- 2. The adjacent Stringer S1 (left side) spaced 2'-01" center to center is in fair condition (bottom flange right side has a 2-1/2" wide x 3" long corrosion hole at the end).
- 3. The adjacent Girder G2 (right side) spaced 5'-0" center to center has repair plates installed and is in good condition.
- 4.Double left lane closure at 3rd Avenue Westbound between 34th and 36 Streets, and a 35' bucket truck are required to access this location.

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Flag Photographs



Attachment Description: Framing Plan - Span 183

SPAN <u>18</u>3 @ PIER <u>18</u>2 G_1

1151)

Attachment Description: Yellow Flag Condition Sketch

Photo Number:

Photo Filename: Photo 1-RA 663_2790.jpg

Flag Date: July 22, 2022



Attachment Description: General view of the flagged condition at Span 183 Girder G1 at Pier 182. Looking Begin.

Photo Number:

BIN 1065318

Photo Filename: Photo 2-RA 663_2795.jpg

Flag Date: July 22, 2022



Attachment Description: Close up general view of the flagged condition at Span 183 Girder G1 at Pier 182. Looking Begin Left.

Photo Number:

Flag Date: July 22, 2022

Photo 3-RA 663_2796.jpg

Photo Filename:



Attachment Description: The right side connection angle exhibits up to 1/8" thick pack rust at the top 3 inches with a 1/2" high x 1-1/2" wide corrosion hole at the top. Looking Begin Left.

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Flag Date: July 22, 2022

Photo Number: 6 Photo Filename: Photo 4-RA 663_2792.JPG



Attachment Description: The left side of Girder G1 web exhibits a 4" wide x full height area with heavy corrosion along the connection angle. D-meter readings indicate up to 49% section loss. The lower web exhibits a 2" high x 3'-0" long area with 1/8" to 3/16" deep section loss. Looking Begin Right.